

flooded. *Missouri river*—7th to 9th, at Omaha, 17 feet, 6 inches. (18 inches above danger line.) R. R. track submerged. flats covered: Omaha smelting and refining works flooded, current of river within 150 feet: at Leavenworth, 17 feet, 2 inches, water nearly over island opposite city, threatening wheat crop here and at Kansas city. 11th, threatening to form a new channel at Kansas city. 13th, Omaha, flats covered until date; no serious damage to smelting works; current of river has changed to within 150 feet of said works. 20th to 22nd, at Omaha, 17 feet, 2 inches, flats covered, R. R. tracks submerged; smelting works partly flooded; river full of logs. 23rd, Omaha, river undermined old warehouse at foot of Fornan street, and about one-third of entire building went down river. 29th, Omaha, flats covered; R. R. tracks submerged; smelting works flooded and fires extinguished.

Drought.—Jamaica, W. I., crops suffering from severe drought, the usual seasonal rains not having set in, (excepting showers of the 3rd.) West Charlotte, Vt., 6th, vegetation nearly stopped growing; grass drying up.

Hail.—Ft. Stevenson, Dak., 2nd; Sidney Bks., Neb., 1st; Camp Sheridan, Neb., 6th; Ft. Wingate, N. M., 11th; Ft. Union, N. M., 16th; Ft. Griffin, Tex., 3rd; Ft. Fred Steele, Wy. Ty., 2nd, 10th; Ft. Fetterman, Wy. Ty., 10th, 17th, 21st, 28th; Summit, Col., 4th to 8th, 12th, 15th, 17th, 23rd; Olivet, Dak., 1st; near Forsyth, Ga., 4th; Gainesville, Ga., 9th; Como, Ill., 20th; Guttenburg, Ia., 6th; near Ft. Madison, Ia., 20th; Iowa City, Ia., 2nd, 19th; Vail, Ia., 29th; Nora Springs, Ia., 1st; Pt. Pleasant, La., 17th; near Woodstock, Md., 4th; Fallston, Md., 12th; Owing's Mills, Md., 10th; New Bedford, Mass., 5th; Springfield, Mass., 12th; Fall River, Mass., 13th; Norfolk, Neb., 29th; Plattsmouth, Neb., 19th; Clear Creek, Neb., 1st, 19th; near Genoa, Neb., 2nd, 29th; Contoocookville and Auburn, N. H., 13th; Starkey, N. Y., 6th; Wappinger's Falls, N. Y., 12th; South Hartford, N. Y., 13th; Goldsboro' and Wilmington, N. C., 9th; Fayetteville, N. C., 4th; Jacksonburg, Ohio, 6th, 7th; Westchester and New Castle, Pa., 11th; Chambersburg, Pa., 13th; Anderson, S. C., 9th; McMinnville, Tenn., 28th; Woodstock, Vt., 12th; Lunenburg, Vt., 12th, 27th; Newport, Vt., 23rd; Mt. Solon, Va., 28th; Wytheville, Va., 8th; Embarrass, Wis., 30th; Salt Lake City, Utah, 1st; Lead City, Dak., 1st, 2nd, 17th, 30th; Cheyenne, Wy. Ty., 13th, 25th; Pike's Peak, Col., (sleet?), 4th, 8th, 10th, 11th, 17th to 19th, 21st, 25th, 27th; Dodge City, Kan., 12th, 15th; North Platte, Neb., 8th, 12th; Castroville, Tex., 8th; Ft. McKavett, Tex., 18th; Mobile, Ala., 4th; Pembina, Dak., 18th; Burlington, Ia., 1st; Milwaukee, Wis., 14th; Morgantown, W. Va., 8th, 11th; Savannah, Ga., 8th; Mt. Washington, N. H., 23rd; New London, Conn., 12th; Virginia City, Mont., 9th.

Rainy Days.—The number of days on which rain or snow has fallen varies, as follows: New England, 8 to 17; Middle States, 7 to 15; South Atlantic States, 6 to 14; Gulf States, 8 to 16; Ohio valley and Tennessee, 9 to 15; Lower Lake region, 8 to 15; Upper Lake region, 9 to 13; Upper Mississippi valley, 11 to 15; Lower Missouri valley, 11 to 13; Eastern Slope, 9 to 19; Rocky Mountain Stations, 11 to 22; Western Plateau, 0 to 10; Pacific coast, 0 to 5.

Cloudy Days.—New England, 6 to 15; Middle States, 6 to 15; South Atlantic States, 8 to 12; Gulf States, 4 to 13; Ohio valley and Tennessee, 6 to 13; Lower Lakes, 7 to 12; Upper Lakes, 7 to 12; Upper Mississippi valley, 8 to 14; Lower Missouri valley, 6 to 13; Eastern Slope, 4 to 8; Rocky Mountain Stations, 1 to 12; Western Plateau, 0 to 4; Pacific coast, 0 to 13.

Snow fell—on Mt. Washington, 10th, 11th, and 12th. Pikes Peak, Col., on the 4th, 5th, 6th, 7th, 12th, 16th, 17th, 20th, 23rd and 27th; the snow-storm of the 16th was unusually heavy; average depth of snow on summit plaza, at end of month, from numerous measurements, is 24 inches.

RELATIVE HUMIDITY.

The average percentage of relative humidity for the month ranges as follows: New England, 62 to 80; Middle States, 62 to 83; South Atlantic States, 65 to 70; Gulf States, 65 to 80; Ohio valley and Tennessee, 60 to 69; Lower Lakes, 62 to 71; Upper Lakes, 68 to 77; Upper Mississippi valley, 61 to 71; Lower Missouri valley, 64 to 72; Eastern Slope, 67 to 76; Western Plateau, 29 to 39; Pacific coast, 34 to 76. High stations report as follows: Mt. Washington, 84; Pike's Peak, 68; Santa Fe, 36; Denver, 49; Cheyenne, 58; Virginia City, 48.

WINDS.

The prevailing winds at the Signal Service stations are shown by the arrows, flying with the wind, on chart No. II. The *Maximum* velocities, in miles per hour, have been given in the description of the movements of low-pressure areas. On Mt. Washington the highest velocity, NW. 84 miles, was recorded on the 6th, and the total movement of the air was not obtained.

Total Movements of the Air.—The following are the *largest* monthly movements recorded at the Signal Service stations, viz: Pike's Peak, 11,431 miles; Cape Lookout, 10,436; North Platte, 9,911; Cape May, 9,420; Barnegat, 9,010; Sandy Hook, 8,877; Dodge City, 8,752; San Francisco, 8,711; Sandusky, 8,302, and Indianola, 7,906. The *smallest* are: Lynchburg, 2,068 miles; Visalia, Cal., 2,213; Virginia City, Mont., 2,581; Knoxville, 2,658; Vicksburg, 2,842; Roseburg, Or., 2,858; Montgomery, 3,006; Lead City, Dak., 3,067; Nashville, 3,098; Leavenworth, 3,131; Augusta, 3,137; Los Angeles, 3,158, and Springfield, 3,247.